



SEQUENCE LISTING

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Logghe, Marc

<120> Drug Targets in Candida Albicans

<130> 53731/000

<140> US//09/857,372A

<141> 2001-09-24

<150> 982204122.0

<151> 1998-12-04

<160> 22

<170> PatentIn Ver. 2.0

<210> 1

<211> 438

<212> DNA

<213> Candida albicans

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<212> DNA

<213> Candida albicans

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<210> 4
 <211> 826
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 <213> *Candida albicans*

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 aatggcttac ttgaaacacg ttaccagaag attcaagaac gggttccaaa ctggtgttgc 600
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 atgtaatgac tatttaatat ctgtttaaat aagaggttta gtctttattt ttttacgtat 780
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 <211> 978
 <212> DNA
 <213> *Candida albicans*

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 <211> 619
 <212> DNA
 <213> *Candida albicans*

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 <223> n = any nucleotide

<220>
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<222> (613)

<223> n = any nucleotide

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<210> 7

<211> 2319

<212> DNA

<213> *Candida albicans*

<400> 7

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cgacatattg aaattaaaca tcgattacaa gttacattta ggatttctaa accggatctg 2220
gataataaaa tgcataatta tgaagtgggt attgataccc ccatcgtttt acttagttca 2280
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<210> 8

<211> 255

<212> DNA

<213> Candida albicans

<400> 8

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ccatagttca gaaaataaaa ttgaaaaatt taaaaaaaaa cgcaatatca ttcatttttt 180
ttgttttttt gacaataata ttaatatgta gttaccaatg tttttagatt ttatatgttt 240
tgaaaaaata gtttg 255

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<210> 9

<211> 119

<212> DNA

<213> Candida albicans

<220>

<221> misc_feature

<222> (45)

<223> n = any nucleotide

<400> 9

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<210> 10

<211> 60

<212> PRT

<213> Candida albicans

<400> 10

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Ala Ser Ile Ile Leu Ile Ile Ile Tyr His Ala Ile Ser Thr Asn Val
      20             25             30

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His Lys Leu Glu Asp Glu Thr Pro Ser Ser Ser Phe Thr Arg Thr Asn
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<210> 11

<211> 426

<212> PRT

<213> Candida albicans

<400> 11

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Ser	Lys	Pro	His	Val	Asn	Ile	Gly	Thr	Ile	Gly	His	Val	Asp	His	Gly	35	40	45	
Lys	Thr	Thr	Leu	Thr	Ala	Ala	Ile	Thr	Lys	Val	Leu	Ala	Glu	Gln	Gly	50	55	60	
Gly	Ala	Asn	Phe	Leu	Asp	Tyr	Gly	Ser	Ile	Asp	Arg	Ala	Pro	Glu	Glu	65	70	75	80
Arg	Ala	Arg	Gly	Ile	Thr	Ile	Ser	Thr	Ala	His	Val	Glu	Tyr	Glu	Thr	85	90	95	
Lys	Asn	Arg	His	Tyr	Ala	His	Val	Asp	Cys	Pro	Gly	His	Ala	Asp	Tyr	100	105	110	
Ile	Lys	Asn	Met	Ile	Thr	Gly	Ala	Ala	Gln	Met	Asp	Gly	Ala	Ile	Ile	115	120	125	
Val	Val	Ala	Ala	Thr	Asp	Gly	Gln	Met	Pro	Gln	Thr	Arg	Glu	His	Leu	130	135	140	
Leu	Leu	Ala	Arg	Gln	Val	Gly	Val	Gln	Asp	Leu	Val	Val	Phe	Val	Asn	145	150	155	160
Lys	Val	Asp	Thr	Ile	Asp	Asp	Pro	Glu	Met	Leu	Glu	Leu	Val	Glu	Met	165	170	175	
Glu	Met	Arg	Glu	Leu	Leu	Ser	Thr	Tyr	Gly	Phe	Asp	Gly	Asp	Asn	Thr	180	185	190	
Pro	Val	Ile	Met	Gly	Ser	Ala	Leu	Met	Ala	Leu	Glu	Asp	Lys	Lys	Pro	195	200	205	
Glu	Ile	Gly	Lys	Glu	Ala	Ile	Leu	Lys	Leu	Leu	Asp	Ala	Val	Asp	Glu	210	215	220	
His	Ile	Pro	Thr	Pro	Ser	Arg	Asp	Leu	Glu	Gln	Pro	Phe	Leu	Leu	Pro	225	230	235	240
Val	Glu	Asp	Val	Phe	Ser	Ile	Ser	Gly	Arg	Gly	Thr	Val	Val	Thr	Gly	245	250	255	
Arg	Val	Glu	Arg	Gly	Val	Leu	Lys	Lys	Gly	Glu	Glu	Ile	Glu	Ile	Val	260	265	270	
Gly	Gly	Phe	Asp	Lys	Pro	Tyr	Lys	Thr	Thr	Val	Thr	Gly	Ile	Glu	Met	275	280	285	
Phe	Lys	Lys	Glu	Leu	Asp	Ser	Ala	Met	Ala	Gly	Asp	Asn	Cys	Gly	Val	290	295	300	

Leu Leu Arg Gly Val Lys Arg Asp Glu Ile Lys Arg Gly Met Val Leu
 305 310 315 320
 Ala Lys Pro Gly Thr Ala Thr Ser His Lys Lys Phe Leu Ala Ser Leu
 325 330 335
 Tyr Ile Leu Thr Ser Glu Glu Gly Gly Arg Ser Thr Pro Phe Gly Glu
 340 345 350
 Gly Tyr Lys Pro Gln Cys Phe Phe Arg Thr Asn Asp Val Thr Thr Thr
 355 360 365
 Phe Ser Phe Pro Glu Gly Glu Gly Val Asp His Ser Gln Met Ile Met
 370 375 380
 Pro Gly Asp Asn Ile Glu Met Val Gly Glu Leu Ile Lys Ser Cys Pro
 385 390 395 400
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 405 410 415
 Gly Thr Gly Leu Ile Thr Arg Ile Ile Glu
 420 425

<210> 12

<211> 699

<212> PRT

<213> Candida albicans

<400> 12

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 35 40 45
 Asn Ile Asn Asp Lys Thr Ile Val Gln Gly Lys Met Thr Trp Tyr Phe
 50 55 60
 Gly Arg Asp Pro Asn Ser Asp Leu Gln Val Ala Ser Ser Ser Arg Ile
 65 70 75 80
 Ser Asn Lys His Phe Gln Ile Trp Leu Asn Phe Asn Asp Lys Ser Leu
 85 90 95
 Trp Ile Lys Asp Thr Ser Thr Asn Gly Thr His Leu Asn Asn Ser Arg
 100 105 110
 Leu Val Lys Gly Ser Asn Tyr Leu Leu Asn Gln Gly Asp Glu Ile Ala
 115 120 125
 Val Gly Val Gly Arg Asp Glu Asp Val Val Arg Phe Val Val Val Phe
 130 135 140

Gly Asp Lys Tyr Asn Pro Ala Lys Leu Pro Asp Ser Thr Asn Thr Ile
 145 150 155 160
 Lys Asp Glu Gly Ile Tyr Lys Asp Phe Ile Val Lys Asn Glu Thr Ile
 165 170 175
 Gly Gln Gly Ala Phe Ala Thr Val Lys Lys Ala Ile Glu Arg Ser Thr
 180 185 190
 Gly Glu Ser Tyr Ala Val Lys Ile Ile Asn Arg Arg Lys Ala Leu Asn
 195 200 205
 Thr Gly Gly Gly Ser Ala Met Ala Gly Val Asp Arg Glu Leu Ser Ile
 210 215 220
 Leu Glu Arg Leu Asn His Pro Asn Ile Val Ala Leu Lys Ala Phe Tyr
 225 230 235 240
 Glu Asp Met Asp Asn Tyr Tyr Ile Val Met Glu Leu Val Pro Gly Gly
 245 250 255
 Asp Leu Met Asp Phe Val Ala Ala Asn Gly Ala Ile Gly Glu Asp Ala
 260 265 270
 Thr Gln Val Ile Thr Lys Gln Ile Leu Glu Gly Ile Ala Tyr Val His
 275 280 285
 Asn Leu Gly Ile Ser His Arg Asp Leu Lys Pro Asp Asn Ile Leu Ile
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 Met Gln Asp Asp Pro Ile Leu Val Lys Ile Thr Asp Phe Gly Leu Ala
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 Lys Phe Ser Asp Asn Ser Thr Phe Met Lys Thr Phe Cys Gly Thr Leu
 325 330 335
 Ala Tyr Val Ala Pro Glu Val Ile Thr Gly Lys Tyr Gly Ser Ser Gln
 340 345 350
 Met Glu Ser Gln Gln Lys Asp Asn Tyr Ser Ser Leu Val Asp Ile Trp
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 370 375 380
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 385 390 395 400
 Phe His Glu Ala Pro Leu Asn Ser Tyr Asp Ile Ser Glu Asp Gly Arg
 405 410 415
 Asp Phe Leu Gln Cys Cys Leu Gln Val Asn Pro Lys Leu Arg Met Thr
 420 425 430
 Ala Ala Glu Ala Leu Lys His Lys Trp Leu Gln Asp Leu Tyr Glu Glu
 435 440 445

Asp Ser Val Lys Ser Leu Ser Leu Ser Gln Ser Gln Ser Gln Gln Ser
 450 455 460
 Arg Lys Ile Asp Asn Gly Ile His Ile Glu Ser Leu Ser Lys Ile Asp
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 Glu Asp Val Met Leu Arg Pro Leu Asp Ser Glu Arg Asn Arg Lys Ser
 485 490 495
 Ser Lys Gln Gln Asp Phe Lys Val Pro Lys Arg Val Ile Pro Leu Ser
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 Gln His Pro Ala Thr Pro Leu Pro Met Ser Gln Pro Lys Lys Arg Pro
 515 520 525
 Tyr Gln Ile Asp Pro Arg Thr Asn Lys Lys Val Asp Leu Glu Glu Pro
 530 535 540
 Ser Thr Ser Lys Lys Val Lys Leu Ser Asp Ser Val Val Ala Glu Asp
 545 550 555 560
 Tyr Leu Lys Leu Gly Pro Leu Ala Asn Ser Leu Phe Gln Glu Thr Ile
 565 570 575
 Asn Ile Ser Lys Ser Pro Phe Ser Phe Gly Arg Asn Asp Thr Cys Asp
 580 585 590
 Cys Glu Ile Asp Asp Asp Arg Leu Ser Lys Leu His Cys Val Ile Thr
 595 600 605
 Lys Glu Asn Asp Ser Ile Trp Leu Leu Asp Lys Ser Thr Asn Ser Cys
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 Leu Val Asn Asn Thr Ser Val Gly Lys Gly Asn Lys Val Leu Leu Arg
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 Gly Gly Glu Ile Leu His Leu Phe Phe Asp Pro Leu Ser Ser Gln His
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 Ile Gly Phe Lys Val Val Leu Val Asp Gln Ser Ser Gly Glu His Lys
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<211> 295

<212> PRT

<213> Candida albicans

<400> 13

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Glu Leu Arg Glu Glu Arg Ile Ala Ala Asn Ile Pro Asp Thr Ile Asp	50	55	60
Ser Lys Arg Ile Tyr Asp Glu Thr Ile Ala Ala Glu Val Glu Gly Asp	65	70	75
Asp Glu Phe Gln Ser Tyr Phe Thr Asn Leu Leu Glu Glu Pro Lys Ile	85	90	95
Leu Leu Thr Thr Ser Ala Asn Ala Lys Lys Pro Ala Tyr Glu Phe Ala	100	105	110
Asp Met Ile Met Asp Phe Leu Pro Asn Val Thr Phe Ile Lys Arg Lys	115	120	125
Lys Glu Tyr Thr Met Gln Asp Met Ala Lys Tyr Cys Ser Asn Arg Asp	130	135	140
Phe Thr Ala Leu Leu Val Ile Asn Glu Asp Lys Lys Lys Val Asn Gly	145	150	155
Ile Thr Leu Ile Asn Leu Pro Glu Gly Pro Thr Phe Tyr Phe Ser Ile	165	170	175
Thr Ser Ile Val Asp Gly Lys Arg Ile Lys Gly His Gly Lys Ala Gly	180	185	190
Asp Tyr Leu Pro Glu Ile Val Leu Asn Asn Phe Asn Ser Arg Leu Gly	195	200	205
Lys Thr Val Gly Arg Leu Phe Gln Ser Ile Phe Pro His Lys Pro Glu	210	215	220
Leu Gln Gly Arg Gln Val Ile Thr Leu His Asn Gln Arg Asp Tyr Ile	225	230	235
Phe Phe Arg Arg His Arg Tyr Ile Phe Arg Asn Glu Glu Lys Val Gly	245	250	255
Leu Gln Glu Gly Pro Gln Phe Thr Leu Lys Leu Arg Arg Met Gln Lys	260	265	270
Gly Val Arg Gly Asp Val Val Trp Glu His Arg Pro Asp Met Glu Arg	275	280	285
Asp Lys Lys Lys Phe Tyr Leu	290	295	

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 <213> Candida albicans

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 Leu Tyr Val Val Leu Lys Asp
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 <212> PRT
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 35 40 45
 Glu Ser Thr Asn Asn His His His Leu Asn Thr Val Val Asp Asn Leu
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 Arg Gln Arg Ala Gly Ser Phe Ser Phe Ile Ser His His His Asn His
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 His Gln Asn Ser His Asp Asn Tyr Thr Val Asp Pro Leu Thr Ser Asn
 85 90 95
 Gly Ala Arg Ile Ser Arg Ser Arg Ser Arg Ser Lys Ser Val Gly His
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 Gly Glu Ala Ile Ser Pro Ala Tyr Phe Ser Lys Asn Lys Thr Lys Asp
 115 120 125
 Leu Val Lys Gln Glu Thr Ala His Ile Ile Ser Lys Lys Leu Leu Asn
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 Met Leu Gln Asp Leu Asp Leu Gln Asn Pro Ile Ala Leu Lys Thr Ile
 145 150 155 160
 Ser Gln Gly Ser Glu Ser Lys Phe Cys Lys Ile Tyr Val Ser Asn Thr
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Asn Asn Cys Ile Tyr Leu Pro Ala Ala Ser Ser Thr Ser Phe Thr Tyr
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Glu Asp Asp Glu Asn Gly Gly Val Ile Ile Ala Glu Asp Arg Asn Asp
 195 200 205

Glu Met Pro Thr Ala Val Asn Asn Asn Thr Leu Ser Met Asp Ser Ile
 210 215 220

Asn His Ser Glu Thr Asp Phe Ser Asp Ser Pro Pro Pro Pro Asp Leu
 225 230 235 240

Phe Ser Lys Met Lys Ser Phe His Ser Pro Asn Tyr Leu Thr Ser Lys
 245 250 255

Ile Asp Ser Glu Cys Pro Ile Pro His Thr Phe Ala Val Ile Val Glu
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Leu Thr Lys Asp Ser Leu Ile Ile Lys Asp Leu His Phe Gln Phe Gln
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Ser Leu Thr Thr Ile Leu Trp Pro Thr Gly Asp Ala Tyr Asn Arg Thr
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His Ala Lys Glu Lys Phe Thr Ile Gly Asn Met Glu Trp Arg Thr Ser
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Leu Ser Asp Ala Asp Tyr Tyr Ile Asn Ser Ser Asn Ser Asn Asp Val
 325 330 335

Lys Ser Lys Asn Leu Gly Pro Glu Asp Leu Ile Asn Arg Thr Arg Glu
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Tyr Lys Leu Ile Asp Ile Glu Glu Pro Asn Asn Ser Ser Asn Ser Leu
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Ser Asp Asp Asp Met Asp Ile Asn Asn Ile Thr Ser Pro Leu Ser Thr
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Ser Pro Thr Ser Ser Ser Thr Ser Thr Asn Ser Thr Ser Asn Ser Leu
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Gly Ser Asp Ser Tyr Lys Ala Gly Leu Tyr Val Phe Leu Leu Pro Ile
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Leu Ala His Thr Leu Ser Val Glu Cys Asn Lys Tyr Thr Asp Lys Leu
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Asn Arg Lys Ser Lys Val Ser Ala Ser Tyr Asn Leu Pro Met Val Arg
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Thr Pro Pro Asn Ile Gly Asn Ser Ile Ala Asp Lys Pro Ile Tyr Val
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Asn Arg Ile Trp Asn Asp Ala Val His Tyr Ile Ile Thr Phe Pro Arg
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 Lys Pro Asp Ser Asp Asn Lys Met His His Tyr Glu Val Val Ile Asp
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 Pro Tyr Ser Ser Val
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 <213> Candida albicans

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 35 40 45
 Trp Ala Leu Lys Ala Lys Arg Arg Arg Thr Thr Gly Thr Gly Arg Met
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence:primer

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<400> 18
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 <223> Description of Artificial Sequence:primer

<400> 19
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<220>
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<210> 21
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<223> Description of Artificial Sequence:DNA plasmid

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<210> 22

<211> 7127

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:DNA plasmid

<400> 22

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